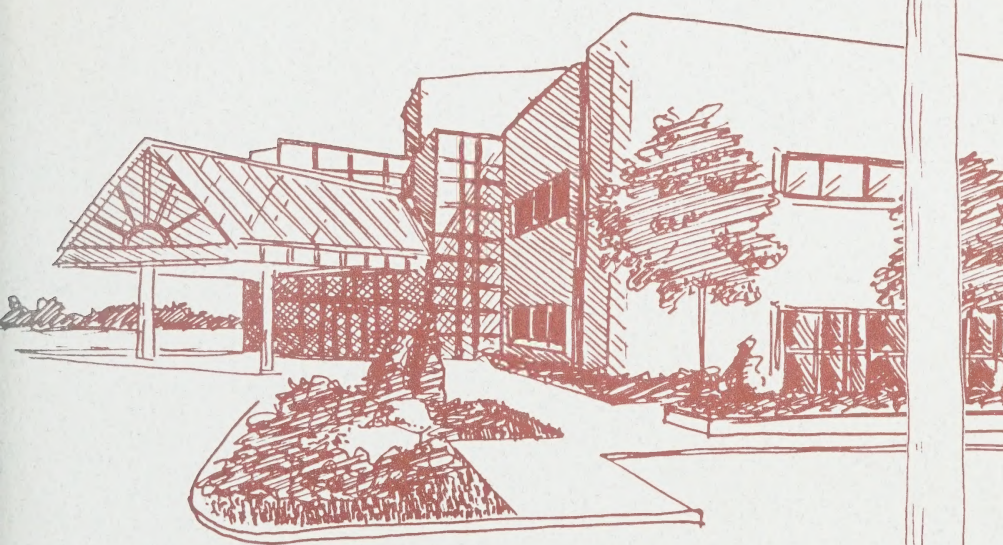


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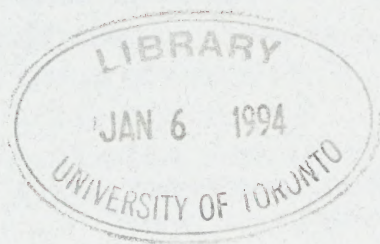
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**Lee Chambers**



# Who's at OFRI 1993

Edited by:  
Dorothy L. Gillmeister



Ontario Forest Research Institute  
P.O. Box 969  
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Sault Ste. Marie, Ontario  
P6A 5N5



Ministry of  
Natural  
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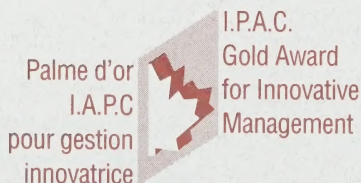
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## ***Mandate:***

**The Ontario Forest Research Institute is committed to providing scientific leadership and excellence in forest research, program development, and technology transfer. We work in support of operational resource management and policy development to contribute to the conservation of Ontario's forest ecosystems. We work in partnership with our clients and in cooperation with other scientific organizations to ensure the effectiveness of our efforts.**

## ***Our Role***

***In*** recent decades, society has become increasingly committed to environmental concerns, and consequently, to a conservation-based approach to the management of natural resources. Conservation embodies preservation, maintenance, sustainable utilization, restoration, and enhancement of the natural environment. As Ontario's leading conservation agency, the Ministry of Natural Resources must establish its management and policy decisions on a scientific understanding of ecosystem structure and function and of the effects of human disturbance on ecosystems. The role of the Ontario Forest Research Institute within the ministry is to provide science-based information and tools which are timely, relevant, and useable, and which promote the scientific integrity of forest policy and management.



## Guiding Principles

*These* guiding principles embody key ideas and ethics to which we as members of OFRI commit. They are meant to act as standards for personal performance, as rules for the organization and functioning of OFRI, and as a guide for all of our dealings with our co-workers and clients.

- ❖ Clients, and their needs, are the focus of our efforts and are valued members of our team.
- ❖ OFRI uses the team approach to problem solving. Each staff member is a specialist in their own right and is critical to the fulfilment of our mandate. Communication, trust, empowerment and accountability are keys to the success of the team.
- ❖ Fostering a positive attitude is important, as professionals, as team members, and as a service organization.
- ❖ Sensitivity to, and respect for, the needs and concerns of our clients, peers, co-workers, and the public are essential for communication.
- ❖ People and their personal and professional development are essential to the long-term effectiveness of our efforts.
- ❖ Professionalism and scientific integrity are the cornerstones of our work.
- ❖ Our leadership efforts are based upon creative and innovative approaches to problem solving that imply risk-taking and the need to view potential failure as a learning tool.





## *About This Directory*

**OFRI's** Client Working Groups (CWGs), linking science groups to major program areas in operations and policy, are the strategic planning components in OFRI's organizational design. Their purpose is to facilitate research and science program delivery, to promote external and cross-program awareness, communication and collaboration, and to foster client relations.

Program teams are put together as needed to carry out project and program responsibilities within each Client Working Group, and consist of "core" members along with other staff brought in whenever their particular skills are needed.

One member of the management team is assigned to each program team, along with secretarial support staff.

For this directory, classified and long-term contract staff are listed alphabetically by Client Working Group. Unless otherwise noted, staff are based at OFRI's Sault Ste. Marie head office. Some staff also work at Maple and at the Centre for Northern Forest Ecosystem Research in Thunder Bay.

Current program teams are shown in the Appendix. Long-term contract staff are shown in brackets.



## *How to Reach Us*

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The **OFRI Management Team** provides support to science programs in delivery of the four primary functions: **Research; Policy Development; Development of Applied Science in Support of Field Programs;** and **Technology Transfer and Information.** Team members assist staff by contributing experience and expertise in facilities support, extension, client and partner liaison, science planning and direction, development of policy, research coordination, financial planning and organization, and/or program administration and management.

The **Management Team** is responsible for: management and allocation of the OFRI budget; assisting program scientists in linking to client advocates and partners; developing and maintaining relations with science and transfer organizations in government, academia and the private sector, and with middle and senior management in MNR; marketing of the OFRI science strategy and science programs to gain external financial support; and annual and 5-year review of OFRI science programs to ensure relevance and progress on deliverables. All of these responsibilities are achieved in a framework which facilitates participatory management guided by a strong strategic leadership.





**David (D²) DeYoe**

*Manager, Forest Science Planning and Direction*

Provides strategic direction and leadership in forest science; networks at senior levels in MNR, university, industry and government to facilitate collaboration and integration of provincial science programs.

BS, Oregon State University, 1971

MS, Oregon State University, 1973

PhD, University of Missouri, 1977

**Dennis Gamble**

*Manager, Support Services*

Responsible for the operation of OFRI Growth Facilities, Nursery/ Arboretum, and building facilities in support of all OFRI research and science programs.



**Rich Greenwood**

*Manager, Science Application and Policy Development*

Provides leadership for the identification of science application and policy needs; coordinates applied science program and policy development; and liaises with other policy sections, applied science collaborators and clients.

BScF, University of Toronto, 1975



### **Mike Millar**

#### *General Manager*

Responsible for the overall direction and management of the Institute.

B.Sc., Forestry, University of Toronto, 1959

MPS, Agric. (Land Use Planning), Cornell, 1972

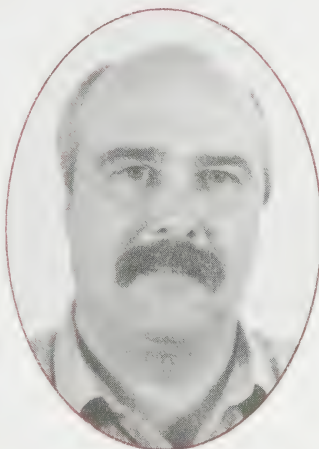


### **Terry Taylor**

#### *Manager, Administration and Operations*

Develops, implements and maintains processes in the areas of work program planning, expenditure and performance reporting, financial administration, cost efficiency and effectiveness, adherence to financial and administrative policies and procedures, human resource planning, employee safety and building operations.

B.Sc., Biology, York University, 1976



### **Vic Wearn**

#### *Manager, Research and Science Transfer*

Facilitates the development, delivery and review of province-wide science programs. Ensures that OFRI's research/science technology transfer program meets the needs of the field.

Ontario Forest Ranger School, Tech. Diploma, 1964



There are five programs in the **Ecological Patterns and Processes Client Working Group** carrying out a variety of projects in support of the concepts and objectives of Sustainable Forestry.

The **Forest Landscape Ecology Program** and the **Ecological Land Classification Program** are investigating how Ontario's forest resources are distributed, organized and function at landscape scale, and how to transfer that knowledge to resource managers and policy makers. The **Forest Landscape Ecology Program** investigates spatial patterns and processes of forest landscapes, including major disturbance regimes. The **Ecological Land Classification Program** focuses on ecosystem description, inventory, and interpretation across spatial scales based on a common framework.

The **Forest Stand Ecology Program**, **Forest Ecosystem Ecology Program / Long-Term Ecological Research (LTER)** and the **Ecology of Intensive Plantations Program** are investigating how a number of Ontario's forest types are assembled, and how the forest's components



interact with one another. We are studying relatively natural forests, to try to understand the basic biological and ecological processes which affect forest regeneration, succession and productivity, as well as managed forests, to understand how resource management practices may affect these ecosystems. Included are studies of atmospheric input, microclimatology, the movement of nutrients and energy in stands and ecosystems, and the relationships of these controlling factors to species distribution and productivity. Genotype x environment interactions of species, tree crown size and development, forest regeneration, succession and other aspects of stand dynamics are also being investigated.



## **Nadarajah Balakrishnan**

### *Ecosystem Research Scientist*

Studies nutrient cycling processes and nutrient relationships in soils and vegetation in forest ecosystems; determines impacts of forest management practices and environmental changes on the biogeochemistry of forest ecosystems.

M.Sc., For. Ecology, Univ. of Hawaii, 1977

PhD, Forest Ecology, Univ. of Hawaii, 1985

## **Dave Baldwin**

### *GIS Analyst*

Principal focus is Geographic Information Systems (GIS) analysis.

Examines the forest landscape patterns, disturbance regimes and ensuing ecological processes in the

Great Lakes - St. Lawrence Forest of Ontario, under the Forest Landscape Ecology Program.

BES, Geography, University of Waterloo, 1992



## **George Buchert**

### *Forest Physiological Geneticist*

Investigates genetic parameters of economic and adaptive traits at the tree, stand and population level, including mechanisms for inheritance and gene control, heritability and maintenance of genetic variability, and dynamics of genetic processes in natural ecosystems

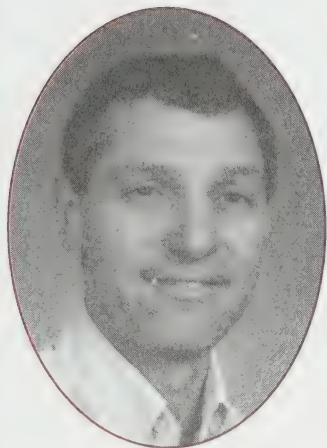
Tech. Dip., Paul Smith's College, 1965

B.Sc., For. Mgt., Univ. of Idaho, 1969

M.Sc., For. Genetics, Univ. of Idaho, 1971

PhD, For. Genetics, Mich. State Univ., 1981





**Terry Casella** (CNFER)

*Senior Forest Ecology Technician*

Coordinates and maintains the CNFER Forestry Data Bank. Also supervises and implements the technical aspects of the Forest Stand Ecology research program for the unit scientists in areas such as data collection and computer analysis. Forest Technical Diploma, Lakehead University, 1969  
B.Sc., Biology, Lakehead Univ., 1976

**Bill Cole**

*Forest Ecology Scientist*

Coordinates Forest Ecosystem Ecology /LTER Program. Conducts research on hardwood crown dynamics.

B.Sc., Forestry, University of Illinois-Urbana, 1983

M.Sc., Forest Ecology, Michigan State University, 1986

PhD, Silviculture, University of Wisconsin, 1991



**Julie Elliott** (CNFER)

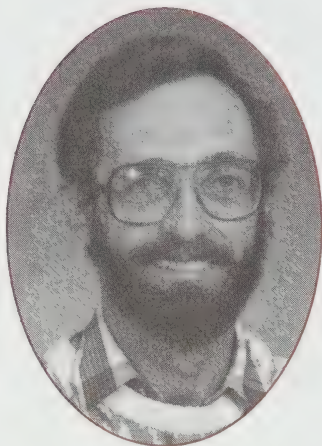
*Ecosystem Impacts Technician*

Provides technical, laboratory and statistical support to research programs in the Forest Stand Ecology Group by assisting in the planning and implementation of laboratory and field projects.

Prepares summary reports of analysis and literature reviews.

H.B.Sc., Forestry, Lakehead University, 1985





## **Bob Forslund (CNFER)**

*Biomathematician / Computer Analyst*

Provides mathematical and computing advice and guidance for staff.

Evaluates and develops mathematical models/tools for use in forestry.

Maintains computing facilities.

B.Math., University of Waterloo, 1970

## **Al Gordon**

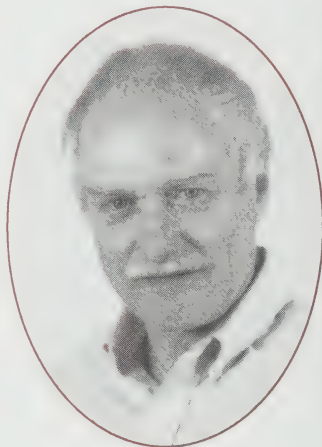
*Ecosystems / Genecology*

*Research Scientist*

Studies structure and processes of spruce forest ecosystems: biomass, productivity, nutrient cycling; genetic variation in spruce within and between ecosystems; genotype x environment interaction; genetic structure of genus *Picea*.

BScF, Univ. of New Brunswick, 1954

PhD, University of London, 1958



## **Steve Hills (CNFER)**

*Ecosystem Impacts Technician*

Provides technical, laboratory and statistical support to research

programs in the Forest Stand Ecology

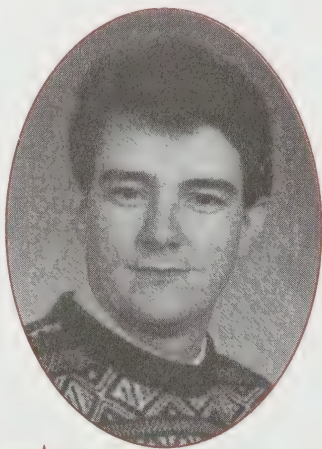
Group by assisting in the planning

and implementation of laboratory and field projects. Prepares summary

reports of analysis and literature reviews.

Forest Tech. Dip., Sault College, 1985

H.B.Sc., Forestry, Lakehead Univ., 1988





## **Mark Johnston** (*CNFER*)

### *Forest Ecology Research Scientist*

Conducts studies on the impacts of logging and fire on boreal forest stands and landscapes. Investigates the use of ecological land classification systems in forest management.

B.Sc., University of Minnesota, 1976

M.Sc., University of Alberta, 1981

PhD, State University of New York, 1990

## **Norbert Lussier**

### *Ecosystem Ecology Technologist*

Coordinates work on the intensive LTER site at Swan Lake and works on and with data from various Spruce (*Picea*) ecosystems and genotype projects, including many spruce research plantations. CET, Industrial Chemistry, Ryerson Institute of Technology, 1961



## **Sean McMurray, RPF**

### *Ecological Land Classification (ELC)*

#### *Program Analyst*

Provides technical and analytical support for the ELC Program.

Coordinates the Provincial Ecological Data Repository. Examines ecological classification alternatives at ecoregion, ecodistrict, ecosite and ecoelement scales.

BScF, University of Toronto, 1984

GIS Applications Specialist Diploma, Sir Sandford Fleming College, 1991







**Dave Morris** (CNFER)

*Ecosystem Impacts Research Scientist*

Forest Stand Ecology (Impacts) Program Coordinator. Research expertise includes study of post-harvest recovery dynamics; plant competition dynamics and jack pine genecology. Current research is directed at determining the impacts of timber operations on the structure, function, and ultimate long-term productivity of boreal ecosystems. B.Sc., Forestry, Lakehead University, 1983  
M.B.Sc., Forestry, Lakehead University, 1985

**Chris Papadopol**

*Forest Ecophysiology Scientist*

Ecology of Intensive Plantations Program Coordinator. Conducts research related to environmental influences on plantation growth.

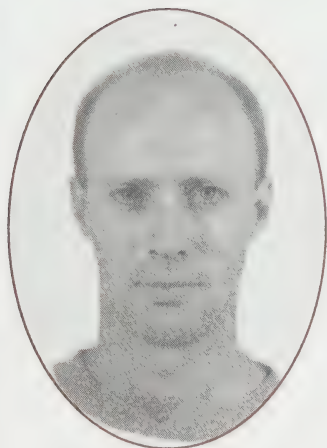
Projects cover environmental monitoring and the influence of climatic change on forests. M.Sc., Silviculture, Poly. Inst. of Brasov, Romania, 1960; PhD, Forest Physiol., University of Brasov, Romania, 1971



**Ajith Perera**

*Landscape Ecologist*

Principal focus is forest landscape ecology (Program Coordinator) and biodiversity. Examines forest landscape patterns, disturbance regimes, and ensuing ecological processes, and develops methodology to analyze landscape diversity. BS, University of Sri Lanka, 1980  
MS, Pennsylvania State University, 1983  
PhD, Pennsylvania State University, 1986



## **Nick Seymour**

### *Chemical Technician*

Provides analytical support services for Forest Ecosystems Ecology Group by performing a wide variety of inorganic analyses on plant tissues, forest soils and natural waters.

Industrial Chemistry Technician  
Diploma, Sault College, 1976

## **Agnes Szilagyi**

### *Ecophysiology Technician*

Performs tasks related to monitoring of weather elements, soil moisture and growth in various field experiments, as well as electronic data transfers and computer processing of resulting information.

Civil Architecture and Industrial Engineering (Construction), College of Technology, Cluj, Romania, 1975



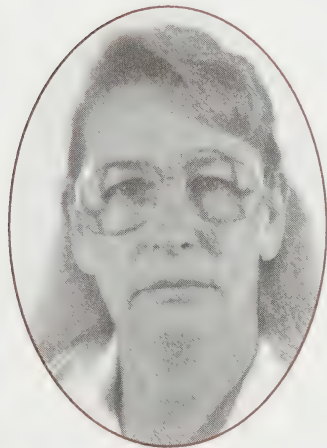
## **Nancy Tibbles**

### *Inorganic Analytical Laboratory Supervisor*

Responsible for the analytical laboratory performing inorganic chemical analysis of ecological materials, primarily plant tissue, forest soils and natural waters.

Chemical Technician Diploma, Sault College, 1967

BA, Mathematics, Algoma Univ., 1988





## **Peter Uhlig**

### *Forest Ecologist*

Primary interests include ecosystem structure and composition. Projects include Provincial Ecosystem Classification (Program Coordinator), related inventory and applications of this knowledge to develop an understanding of dynamics and large-scale patterns of forest ecosystems.

B.Sc., Ecology, University of Guelph, 1980

M.Sc., Soils, University of Guelph, 1983



The **Forest Measurement and Modelling Client Working Group** provides leadership and scientific expertise for policy development and field resource management for Ontario in the areas of quantitative forest yield assessment (**Forest Growth and Measurement Program**) and modelling dynamic growth processes (**Forest Modelling and Productivity Program**). Projects operate at both the individual tree and forest stand levels in the Boreal, Great Lakes/St. Lawrence and Carolinian Forest Regions.

Cooperative delivery of the provincial **Growth and Yield Initiative** with regional and district staff is currently the primary focus of both program areas. This includes developing and maintaining the Provincial Master Plan, coordinating stratification and plot establishment, analyzing data collected, and transferring the resulting models to our clients.

The CWG also specializes in a wide range of project areas which covers all aspects of forest measurement and modelling. Tasks include both research and program delivery.



## **Jim Hayden**

### *Technical Coordinator*

Implements the field portion of the Provincial Growth and Yield program, addressing questions on sampling design, field methodology and quality assurance.

Forest Technology Diploma, Lakehead University, 1978

B.Sc., Fisheries Biology, Univ. of Guelph, 1984

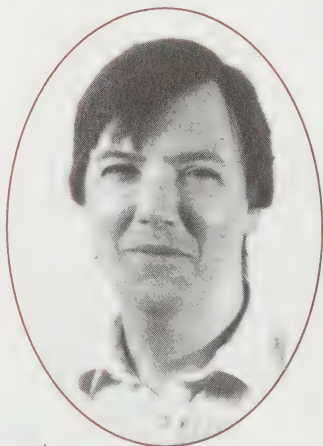
## **Janice Matuszyk**

### *Data Specialist*

Performs database management, programming and analysis for the Growth and Yield program.

B.Sc., Lake Superior State College, 1984

BA, Algoma University, 1988



## **Roj Miller**

### *Forest Measurements and Modelling Specialist*

Conducts and coordinates studies and projects and provides statistical and mensurational science support in the areas of forest measurement, sampling and forest growth and yield.

BScF, Univ. of Toronto, 1975

MScF, Univ. of Toronto, 1978



## **Voyteck T. Zakrzewski**

### *Provincial Forest Modeller*

Conducts and coordinates modelling efforts in the field of Growth and Yield. Works on a range of modelling projects in the area of tree/stand growth and yield dynamics: derives and examines growth simulators and develops mensurational methods and procedures.

PhD, Warsaw Agricultural Univ.,  
SGGW-AR, Poland, 1983



The **Genetic Resource Management Client Working Group** provides scientific expertise and leadership in the continuing development of the provincial tree improvement program and in the development of policy and guidelines for management of genetic diversity and gene conservation. Current program activities include: analyses of operational tree improvement data, development of efficient operational genetic testing methodology and breeding strategies, studies assessing patterns of adaptive variation in native tree species, studies in reproductive biology, and the development of operational gene conservation strategies.



## **Oldrich Hak**

### *Reproductive Biology Forester*

Conducts studies on cone induction for pollen-cone and seed-cone production on pollen management, pollination, and tree crown management for cone production.

BScF, Univ. of Toronto, 1980

## **Don Higgs**

### *Genetic Resource*

### *Management Technician*

Responsible for the implementation, maintenance and assessment of various genetic research trials.

Performs computer data entry and analysis.

HBOR / B.Sc., Lakehead Univ., 1989



## **Rong Ho**

### *Reproductive Biology and Biotechnology Research Scientist*

Studies sexual reproduction in conifers. Conducts rejuvenation research through cell, tissue and organ culture.

B.Sc., National Taiwan Univ., 1963

M.Sc., National Taiwan Univ., 1966

M.Sc., Univ. of British Columbia, 1968

PhD, Univ. of British Columbia, 1972





## **Jim Hood**

### *Quantitative Genetics Research Scientist*

Investigates the inheritance patterns of economically and biologically important forest tree characteristics. Develops efficient and effective selective breeding procedures for tree improvement programs.

B.Sc., Univ. of Washington, 1972

M.Sc., Univ. of Calif., Berkeley, 1975

## **Dennis Joyce**

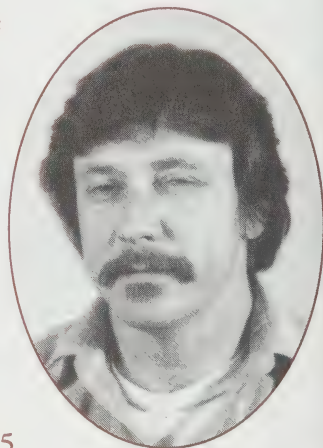
### *Provincial Forest Geneticist*

Provides scientific support and direction to the operational tree improvement program. Leads Genetic Resource Management Program. Leads a program evaluating patterns of adaptive variation in tree species. Developing an operational gene conservation program.

B.Sc., Southern Illinois Univ., 1973

M.Sc., Univ. of Idaho, 1978.

PhD, Univ. of Idaho, 1985.



## **Frank Schneckeburger**

### *Provincial Tree Improvement Data Analyst*

Coordinates development and maintenance of provincial tree improvement data management systems, guidelines and standards. Analyzes genetic test data in support of provincial tree improvement programs.

BScF, Lakehead University, 1983

MScF, Lakehead University, 1988



**Bob Sinclair**

*Genetic Resource Management*

*Senior Technician*

Coordinates technical aspects of the Genetic Resource Management Client Working Group, including trial establishment, maintenance and assessment. Supervises technical staff.

Forest Technologist,  
Lakehead University, 1970

The **Integrated Pest Management Client Working Group** consists of three programs involving the management of forest insects and diseases. These programs recognize the nature and value of the forest resource, the ecosystem, and the user of the information, which includes resource managers and policy interests.

The **Regeneration Pest Management Program** and the **Tree Improvement Pest Management Program** provide a dual role of field service and research. One function of these programs is to survey, evaluate and predict insect- and disease-related losses in tree seedling production, establishment, and tree improvement across Ontario. These programs are also responsible for developing pest management strategies, conducting applied research, and transferring technology.

The **Forest Pest Management Program** is involved in disease management planning for proposed and established plantations from regeneration through harvest. This program also includes research on the interrelationships of ecosystem structure, silvicultural practices and disease impacts.



**Sylvia Greifenhagen**

*Regeneration Pest Management  
Forester*

Examines the impact of disease and insect pests on forest tree seedlings and develops pest management strategies to minimize losses. Conducts studies on applied regeneration pest management. HBScF, Lakehead Univ., 1986

**Glenna Halicki**

*Clinical Laboratory Supervisor*

Supervises and operates the Forest

Pest Diagnostic Laboratory.

Conducts research studies on laboratory methods to detect and identify forest pests.

B.Sc., Botany/Plant Pathology,

University of Toronto, 1989

Forest Technician Diploma, Sault  
College, 1982



**Tim Meyer**

*Provincial Forest Pathologist*

Delivers province-wide program on forest disease management.

Conducts research on relationships of forest management, applied silviculture, and disease impacts.

BS, Univ. of Minnesota, 1977

MS, North Dakota State Univ., 1981

PhD, Univ. of Florida, 1986





## **Jim Saunders**

*Forest Pathology Research Scientist*

Designs and implements studies in forest pathology. Develops bioassay methods for evaluating pathogenicity of soil-borne organisms.

B.Sc., Univ. of Waterloo, 1984

The purpose of the **Seedling Production and Establishment Client Working Group** is to gain a better understanding of the factors influencing the establishment of new forests, both through natural regeneration and through the production and planting of seedlings.

Seven projects are currently in progress:

**Seedling Quality Assessment**

**Natural Regeneration**

**Seedling Culture**

**Handling and Planting**

**Seed Physiology**

**Overwintering**

**Stock/Site Interactions.**

The application of this knowledge to forest management and nursery practice will improve reforestation success, thereby increasing the annual allowable cut, while reducing overall silvicultural costs.



## **Steve Colombo**

### *Tree Stress Research Scientist*

Examines the nature and consequences of stresses experienced by trees, from nursery or field seedlings through to mature trees. Projects include studies in overwintering seedlings, conditioning trees to withstand drought, heat or frost, and the effects of climatic warming on the risk of frost damage.

BScF, University of Toronto, 1977

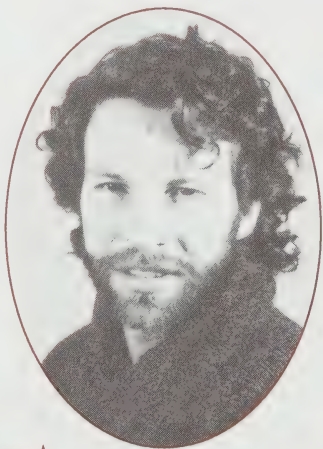
MScF, Lakehead University, 1982

## **Kathleen Ghiga**

### *Structure/Function Technician*

Performs morpho-anatomical analyses of seedling tissues and physiological tests/assessments of seedlings in the field and laboratory. Assists researchers in developing a new competition tolerance index for conifer seedlings.

B.Sc., Chemistry, Univ. of Galati,  
Romania, 1987



## **Desmond Hickie**

### *Chemical Laboratory Technician*

Prepares, processes and analyzes tree tissue samples for various biochemicals. Performs computer data entry and analysis.

Biological Research Technology  
Diploma, Seneca College, 1982



## **Denzil Irving**

### *Senior Technician*

Coordinates the establishment and management of stock production/renewal research trials in the Province. Also coordinates, implements and performs nursery, greenhouse and laboratory analysis in support of various stock production/renewal research projects for unit scientists.

Forest Technician Diploma, Sir Sandford Fleming College, 1971

## **Young -Tae Kim**

### *Tree Biochemistry Scientist*

Analyzes tree seedlings for various biochemical components related to frost hardiness and dormancy.

Develops and improves analytical techniques for determining biochemicals. Supervises tree biochemical laboratory.

B.Sc., Chemistry, Sung Kyoon Kwan Univ., Korea, 1957

M.Sc., Phys. Chem., Sung Kyoon Kwan Univ., Korea, 1960

## **Doug Maki**

### *Seedling Planting and Handling Evaluation Forester*

Identifies seedling stress events in packaging, shipping, and planting operations by tracking stock from nurseries to planting sites. The effect of stresses on seedling field performance is quantified through on-site trials and laboratory experiments.

HBScF, Lakehead Univ., 1991



**Peter Menes**

*Bare Root Stock*

*Production Research Scientist*

Conducts studies to improve nursery cultural practices and to improve field performance of hardwood and coniferous bare root nursery stock.

BScF, Univ. of Toronto, 1981

MScF, Univ. of Toronto, 1987

**Gina Mohammed**

*Tree Structure and Function*

*Research Scientist*

Studies anatomical and physiological aspects of seedling quality and performance. Currently investigating seedling performance under inter-specific competition and the application of fluorescence techniques for seedling quality assessment. Manages the microtechnique laboratory.

B.Sc. (Hon.), Univ. of Toronto, 1981

PhD, Simon Fraser Univ., 1990



**Tom Noland**

*Tree Biochemistry Research Scientist*

Develops new biochemical techniques for stock quality assessment. Conducts physiological research on improving tree seed germination performance.

Manages tree biochemistry laboratory.

B.Sc., The Ohio State Univ., 1974

M.Sc., Univ. of Wisconsin, 1977

PhD, Univ. of Arkansas, 1984

## **Kerry Odlum**

*Container Stock Production Scientist*

Carries out a research program to assess and improve upon current container nursery practices.

Develops new procedures with the ultimate goal of more efficient and successful forest regeneration.

B.Sc., University of Victoria, 1979

## **Bill Parker**

*Tree Ecophysiology Research  
Scientist*

Studies ecophysiological aspects of forest renewal to improve methods of natural regeneration.

B.Sc., Southern Illinois Univ., 1978

M.Sc., Univ. of Missouri, 1980

PhD, Univ. of Missouri, 1984

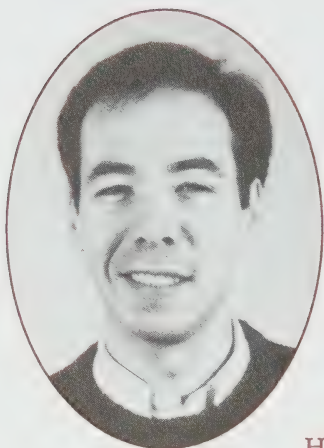
## **John Paterson**

*Research Regeneration Specialist*

Develops and implements Provincial research and extension program addressing concerns and problems identified in the artificial regeneration program.

Forest Technician Diploma, Sir Sandford Fleming College, 1970





**Paul Sampson**

*Nursery Stock Quality Assessment  
Project Coordinator*

Leads the Provincial Nursery Stock Quality Assessment Project of the Sustainable Forestry Initiative by coordinating the evaluation of nursery stock handling practices, the development of new seedling evaluation methods, and the testing of physiological quality of operational nursery stock from throughout Ontario.  
HBScF, University of Toronto, 1989

**Geoff Sanguins**

*Nursery Stock Quality Technician*

Assesses stock quality by various laboratory and field testing techniques. Assists in organizing field trials and does computer data entry and manipulation.



**Colin Templeton**

*Stock Quality Assessment Forester*

Evaluates and develops physiological stock quality assessment techniques. Coordinates trials in field, nursery, greenhouse and laboratory settings in order to quantify baselines for healthy and unhealthy trees.

HBScF, Lakehead University, 1989.



## **Steve Watson**

### *Research Technician*

Assesses stock quality using various laboratory and field testing techniques. Assists with field trial establishment, data collection and analysis.

Forest Technician Diploma, Sault College, 1984

Fish and Wildlife Technologist Diploma, Sault College, 1985

## **Wanda Wright**

### *Seedling Evaluation Technician*

Performs various physiological and morphological assessments of seedlings in the Stock Quality Laboratory. Assists in development of new methods to physiologically assess seedling quality.

Forest Technician Diploma, Sault College, 1991



The **Stand Establishment and Management Client Working Group's** mandate is to provide a scientific basis for provincial silvicultural policy and to assist our clients in understanding and applying the most effective forest management principles.

The **Mixedwood Silviculture Program** seeks to enhance the sustainable management of softwood-hardwood mixtures, with an emphasis on boreal species. Alternative silvicultural systems are being developed for the underutilized but highly productive mixedwood resource. Projects in stand structure and dynamics, critical competition levels, successional trends, modified harvesting and site preparation, and aspen thinning provide the ecological basis for silvicultural decision support. Research on managing the diverse resource values in mixedwood forests is being addressed through linkages with specialists in other disciplines such as fish and wildlife, site classification, and ecological processes.



The **Hardwood Silviculture Program** is responsive to the needs of resource managers in the Great Lakes / St. Lawrence and Deciduous Forest Regions of Ontario. We work in all forest ecosystems in these regions, including pine-dominated and mixed conifer-hardwood forests, in addition to the complex array of hardwood-dominated forests. Silvicultural practices based on sound ecological principles are developed to meet management objectives. We are researching alternative silviculture systems to sustain and improve the regeneration, growth and quality of these forests, that address social concerns for a more environmentally sensitive approach to resource management.

The **Vegetation Management Alternatives Program (VMAP)** is seeking methods to reduce dependence on herbicides in Ontario's forests and to advance all aspects of forest vegetation management. The program's goal is being achieved through research, education, and field delivery. The VMAP is coordinated by OFRI and MNR regional Science and Technology Units. The program is a cooperative effort that includes MNR districts, forest industry, Forestry Canada, universities, and other agencies. Numerous research, technology development and transfer, and educational projects across the province are being conducted by VMAP as part of the MNR Sustainable Forestry Program.



**Harvey Anderson** (*Maple*)

*Hardwood Silviculture*

*Research Scientist*

Supervises a long-term, multi-disciplinary study, primarily at the Swan Lake Forest Research Reserve, of the regeneration, growth and quality of tolerant hardwood forests, to provide scientifically-sound silvicultural guidelines for forest managers.

BScF, University of Toronto, 1957

MScF, University of Toronto, 1967

**Nicole Beaudoin**

*Silviculture Research Technician*

Assists in the establishment, maintenance, inventory and assessment of plantations and natural stands. Performs computer data entry and analysis.  
Agroecology Diploma, Sir Sandford Fleming College, 1988



**Wayne Bell**

*Vegetation Management*

*Research Scientist*

Examines the effectiveness, safety, and cost of alternatives to aerial spraying of forest herbicides. Research is focused on developing and testing alternatives, such as animal grazing, mechanical and manual cutting, mulches and ground-applied herbicides.

BScF, Lakehead University, 1983

MScF, Lakehead University, 1990



## **Dan Dey**

### *Hardwood Silviculture Research Scientist*

Develops silvicultural systems for the regeneration and management of hardwood ecosystems. Conducts research related to natural and artificial regeneration strategies, regeneration modelling, modelling stand dynamics, manipulations of stand structure and stocking, and growth/yield.

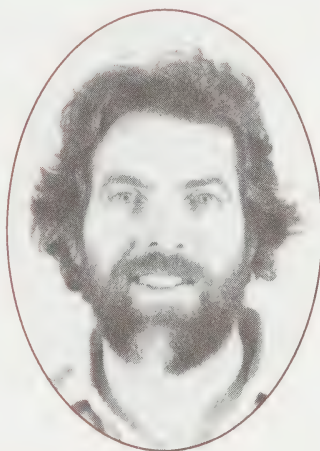
PhD, University of Missouri, 1991

## **Blake Laporte**

### *Silvicultural Research Technician*

Assists in the establishment, maintenance, inventory and assessment of plantations and natural stands. Performs data entry and analysis.

Forest Technician Diploma, Sir Sandford Fleming College, 1988



## **R.A. Lautenschlager**

### *Vegetation Management Research Scientist*

Studies the effects of current and alternative vegetation management practices on forest ecosystems for VMAP. Current research is focused on effects of current and alternative vegetation management practices on wildlife and vegetation.

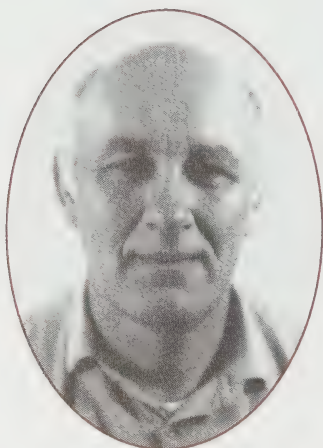
B.Sc., University of Connecticut, 1972

MFS, Yale University, 1974

PhD, University of Maine, 1990







### **Ago Lehela**

#### *Silviculture Technician*

Performs vegetation and crop-tree assessments for VMAP, Tolerant Hardwood, Mixedwood Silviculture programs. Performs computer data entry and manages data bases for various woody and non-woody plant species.

BScF, University of Toronto, 1965

MScF, University of Toronto, 1971

### **Blake MacDonald**

#### *Mixedwood Silviculture Research Scientist*

Coordinates the Mixedwood Silviculture Program. Develops alternative silvicultural techniques for mixedwood forests, emphasizing the effects of stand structure on regeneration establishment and competition dynamics.

BScF, University of Toronto, 1972

MScF, University of Toronto, 1974

PhD, Univ. of British Columbia, 1990



### **Tim Reece**

#### *Mixedwood Silviculture Research Technician*

Coordinates the technical implementation of mixedwood silviculture research projects. Assists with data analysis and technology transfer.

HBScF, Lakehead University, 1987

## **Jim Rice**

### *Hardwood Research Specialist*

Provides scientific and professional support in the planning, development and execution of research studies, and transfer of results for the provincial hardwood forest ecosystem research program. BScF, University of Toronto, 1980



## **Michael Rogozynski**

### *Expert System Data Analyst*

Develops, analyzes, verifies and implements vegetation management databases for expert decision-support systems (Artificial Intelligence) under the Vegetation Management Alternatives Program. B.Sc., Computer Science (in Artificial Intelligence) and Mathematics, Laurentian University, 1991



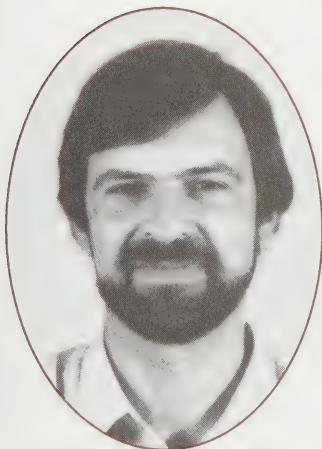
## **Michael Ter-Mikaelian**

### *Vegetation Management*

### *Research Scientist*

Develops models of young forest stand dynamics. Coordinates forest growth and yield research and develops database management for VMAP.

B.Sc., Moscow Institute of Electronic Machine Building, 1973  
PhD, Institute of Global Climate and Ecology, 1990





## **Bob Wagner**

*Vegetation Management Research Scientist*

Leader of Vegetation Management Alternatives Program (VMAP).

Coordinates research, education and field delivery. Research includes plant competitive interactions, alternative vegetation management practices, forest modelling, and decision-support systems.

B.Sc., Utah State University, 1977

M.Sc., Univ. of Washington, 1980

PhD, Oregon State Univ., 1989

## **David Weingartner**

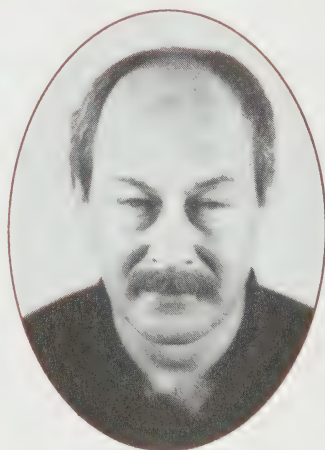
*Mixedwood Silviculture Research Scientist*

Studies the long-term effects of silvicultural treatment on the growth and dynamics of mixedwood stands.

Projects include studies of the effects of thinning on trembling aspen growth and yield; and the effects of site and climate on phenotypic expression.

BScF, West Virginia Univ., 1971

MScF, West Virginia Univ., 1974



## **John A. Winters**

*Senior Research Technician*

Coordinates the establishment and management of research trials for the Stand Establishment and Management Client Working Group. Responsible for technical aspects of the research program.

Forest Technician Diploma, Sault College, 1975

Fish and Wildlife Technologist Diploma, Sault College, 1976



The **Administration and Support Services Client Working Group** comprises three program areas:

**Administration/Operations** coordinates and performs all administrative, financial and operational functions for OFRI programs and staff. This includes such things as clerical support; communications; fleet; occupational health and safety; reception and receiving; payroll, personnel, accounts, and purchasing coordination; building operations; program/project development and coordination; work planning; budget control; among others.

**Facility Support Services** is responsible for the smooth and efficient operation of the Growth Facilities (greenhouses and environmental chambers) and the Nursery/Arboretum (84 ha research farm). This includes the establishment, maintenance and monitoring of all types of research program material. A third part of FSS is Building Facilities, which looks after common building matters and specific laboratory and office requests.

**Technology Transfer and Information** facilitates the transfer of research and science information to policy makers and to the field by acting as a liaison between the research/science professional and the client, and by preparing scientific publications, posters, videos and slides. To increase general awareness of OFRI, the group coordinates displays, newsletters, brochures, tours and special events.



### **Maria Dagenais**

#### *Administration/Operations Coordinator*

Provides administration and operations support services at OFRI, and also coordinates the Administration/Operations team. Has been with the Institute for twelve years.

Office Administration Executive  
Secretarial Diploma, Sault College, 1979

### **Denise Fleury**

#### *Receptionist*

Provides bilingual reception services for OFRI by answering all incoming calls and receiving visitors in both official languages, providing backup secretarial, clerical and word processing support for the Administration team, and interpreting French documentation upon request. Denise is a francophone of Sault Ste. Marie.



### **Ann Foggia**

#### *Administrative and Program Support Secretary*

Provides secretarial and administrative services to the Manager, Research and Science Transfer, and to associated program staff. Provides back-up support to the rest of the Administration team.

Office Administration Executive  
Secretarial Diploma, Sault College, 1989



## **Marion Lewis**

### *Administrative and Program Support Secretary*

Provides secretarial services to management and program staff, oversees mailroom duties, and maintains inventory of supplies. Provides backup support to the rest of the Administration team.

Early Childhood Education Diploma, Sault College, 1980

## **Elizabeth Maxton (CNFER)**

### *Administrative Officer*

Provides support and administrative links between scientific programs undertaken at OFRI Thunder Bay and OFRI Sault Ste. Marie. Also provides office services for the Centre for Northern Forest Ecosystem Research (CNFER) in Thunder Bay. BA, Psychology, Lakehead Univ., 1992



## **Patricia E. McCaw**

### *Project Coordinator*

Coordinates and facilitates the strategic planning, development, implementation, review and administration of projects and programs within OFRI.

B.Sc., Biology, Univ. of Waterloo, 1980

M.Sc., Ecology, Dept. of Botany, Univ. of Toronto, 1985







### **Janet Messenger**

*Secretary to the General Manager*

Provides secretarial support to General Manager and Administration/Operations Supervisor, as well as the OFRI team as required.

Honours Sir James Dunn C&VS graduate with 25 years of work experience.

### **Tanya Quevillon**

*Administrative and Program Support*

*Secretary*

Provides secretarial and administrative services to the Manager, Science Application and Policy Development, and to associated program staff. Provides backup support to the rest of the Administration team.

Office Administration Executive  
Secretarial Dipl., Sault College, 1989



### **Joanie Rudzki**

*Administrative and Program Support  
Secretary*

Provides secretarial, word processing, purchasing, contracting and general administrative support primarily to VMAP. Works with balance of Administration/Operations Team to ensure timely and accurate coordination and delivery of required services to rest of OFRI staff.





**Heather Wreggitt**

*Senior Administrative Secretary*

Provides secretarial and administrative services to the Manager, Forest Science Planning and Direction, and to the Manager, Research Liaison and Coordination. Brings 26 years of senior secretarial experience to the Institute.



**Brian Biggar**

*Arboretum Leader*

Manages arboretum activities and staff. Coordinates establishment, maintenance, assessment, documentation of research trials at arboretum. Oversees operation and maintenance of equipment, storage facilities, metal, and woodworking shops.

**Stewart Blake**

*Growth Facilities Coordinator*

Coordinates activities in OFRI's greenhouses, environmental chambers, holding rooms and related work areas. Operates greenhouses and environmental chambers, tends experimental plant material, and collects, compiles and analyses environmental records.  
B.Sc., Univ. of Guelph, 1985



**Andre Cyr**

*Nursery Technician*

Performs duties necessary for establishment and maintenance of research trials. Operates and maintains both agricultural and shop-related equipment.



## **Randy Fawcett**

### *Maintenance Technician*

Performs maintenance and repair of refrigeration, mechanical, electrical and electronic systems associated with fully automated environmentally controlled growth facilities and scientific equipment. Air Conditioning/Refrigeration Mechanic, Algonquin College, 1985

## **Rick Klazinga**

### *Propagation Technician*

Operates growth chambers and greenhouses. Ensures that crops receive prescribed water, fertilizer, temperatures, lighting and photoperiod, and maintains cultural records. Monitors crops for growth, insects, diseases, and general health.

Forest Technician Dip., 1977

Outdoor Recreation Technologist Dip, Sir Sandford Fleming College, 1978

## **Ross Moore**

### *Nursery Technician*

Performs duties necessary for establishment and maintenance of research trials. Operates and maintains both agricultural and shop-related equipment.



### **Dave Bates**

*Coordinator, Technology Transfer and Information*

Develops and facilitates techniques for the transfer of science to field practitioners in forest management through publications, workshops, displays, special events and personal interaction. Maintains OFRI's research archives.

BScF, University of Toronto, 1957  
MA, Univ. of Western Ontario, 1958;  
BA, University of Toronto, 1959

### **Lisa Buse**

*Education and Communication  
Coordinator*

Produces and distributes annual reports, newsletters, and publications; coordinates workshops, displays, and public education material; provides communications support for VMAP.

B.Sc., Univ. of Guelph, 1984  
MScF, Lakehead Univ., 1987



### **Dorothy Gillmeister**

*Technology Transfer Specialist*

Produces information products for the transfer of science to the field, including articles, newsletters, bibliographies, and scientific videos; assists scientists with preparation of overheads and posters.

BA, Bishop's University, 1964  
MA, Adult Education, OISE, 1978  
BAA, Journalism, Ryerson, 1985



**Colette Hanmore** (CNFER)

*Resource Centre Coordinator*

Maintains an expanding boreal forest ecosystem and silviculture library and a computerized research library database at the Centre for Northern Forest Ecosystem Research. Also provides reference services in support of scientific programs and assists the Regional Science and Technology Unit in the communication of research results to clients.

H.B.Sc., Forestry, Lakehead Univ., 1991

**Carmen Misasi**

*Graphics Officer*

Responsible for the creation of logos; illustrations; graphics; charts; etc. Assists in the design and layout of publications; brochures; slides; and displays in support of VMAP and other OFRI programs. Graphic Design Dip., Algonquin College, 1989





- |              |   |
|--------------|---|
| D. Deyoe     | - Manager, Forest Science Policy & Programs     |
| D. Gamble    | - Manager, Support Services                     |
| R. Greenwood | - Manager, Science Policy & Program Development |
| M. Millar    | - General Manager                               |
| T. Taylor    | - Manager, Administration/Operations            |
| V. Wearn     | - Manager, Research & Science Program Transfer  |

<b>Core Team</b>	★ - regular participants	★ - Program Coordinator
<b>Others</b>	● - participants as needed	● - CWG Coordinator
	X - support and linkage	X - Manager
	( ) - Long-Term Contract	▼ - Admin. Support

# Ecological Patterns and Processes

## FOREST STAND ECOLOGY

N. Balakrishnan    S. Hills  
 T. Casella    M. Johnston  
 B. Cole    N. Lussier  
 J. Elliott    ▼ E. Maxton  
 B. Forslund    ★ D. Morris  
 A. Gordon    N. Seymour  
 ✕ R. Greenwood    N. Tibbles

## ECOLOGICAL LAND CLASSIFICATION/ELC

✕ R. Greenwood    ▼ T. Quevillion  
 M. Johnston    ★ P. Uhlig  
 (S. McMurray)  
 A. Perera

## INTENSIVE PLANTATION ECOLOGY

✕ D. DeYoe    ★ C. Papadopol  
 ▼ M. Lewis    (A. Szilagyi)

## FOREST LANDSCAPE ECOLOGY (Fragmentation & Biodiversity)

(D. Baldwin)    M. Ter-Mikaelian  
 ▼ A. Foggia    ✕ V. Wearn  
 ★ A. Perera

## FOREST ECOSYSTEM ECOLOGY (LTER)

B. Balakrishnan    R.A. Lautenschlager  
 G. Buchert    ▼ (M. Lewis)  
 T. Casella    N. Lussier  
 ● ★ B. Cole    D. Morris  
 D. Dey    C. Papadopol  
 ✕ D. DeYoe    J. Rice  
 J. Elliott    N. Seymour  
 A. Gordon    N. Tibbles  
 S. Hills    P. Uhlig  
 M. Johnston    J. Winters

**Core Team**    - regular participants  
**Others**    - participants as needed  
                  for support and linkage  
                  ( ) - Long-Term Contract

★ - Program Coordinator  
 ● - CWG Coordinator  
 ✕ - Manager  
 ▼ - Admin. Support

## FOREST GROWTH AND MEASUREMENT

✕ R. Greenwood  
 J. Hayden  
 J. Matuszyk  
 R. Miller  
 ▼ T. Quevillion  
 ● ★ J. Rice (Acting)

P. Uhlig  
 V. Zakrzewski

## FOREST MODELLING AND PRODUCTIVITY

B. Cole  
 B. Forslund  
 ✕ R. Greenwood  
 J. Matuszyk  
 R. Miller  
 C. Papadopol  
 A. Perera  
 ▼ T. Quevillion  
 ★ J. Rice (Acting)  
 A. Szilagyi  
 M. Ter-Mikaelian  
 P. Uhlig  
 V. Zakrzewski

### Core Team

- regular participants  
 - participants as needed  
 for support and linkage  
 ( ) - Long-Term Contract

★ - Program Coordinator  
 ● - CWG Coordinator  
 ✕ - Manager  
 ▼ - Admin. Support



# Genetic Resource Management

- ▼ *A. Foggia*
- W. Gibbs
- O. Hak
- D. Higgs
- R. Ho
- J. Hood
- ★ D. Joyce
- F. Schnekenburger
- B. Sinclair
- X V. Wearn

<b>Core Team</b>	- regular participants	★ - Program Coordinator
<b>Others</b>	- participants as needed	● - CWG Coordinator
	for support and linkage	X - Manager
	( ) - Long-Term Contract	▼ - Admin. Support

## REGENERATION PEST MANAGEMENT

▼ *A. Foggia*  
★ S. Greifenhagen  
★ G. Halicki  
T. Meyer  
J. Saunders  
X V. Wearn

## TREE IMPROVEMENT PEST MANAGEMENT

▼ *A. Foggia*  
★ S. Greifenhagen  
G. Halicki  
T. Meyer  
J. Saunders  
X V. Wearn

## FOREST PEST MANAGEMENT

▼ *A. Foggia*  
G. Halicki  
● ★ T. Meyer  
J. Saunders  
X V. Wearn

### Core Team

- regular participants

Others

- participants as needed

for support and linkage

( ) - Long-Term Contract

★ - Program Coordinator

● - CWG Coordinator

X - Manager

▼ - Admin. Support

# Seedling Production and Establishment

S. Columbo  
(K. Ghiga)  
X R. Greenwood  
D. Hickie  
D. Irving  
Y. Kim  
▼ (M. Lewis)  
D. Maki  
P. Menes

G. Mohammed  
T. Noland  
K. Odium  
(B. Parker)  
● J. Paterson  
(P. Sampson)  
G. Sanguins  
(C. Templeton)  
★ S. Watson  
(W. Wright)

Core Team

Others

- regular participants

- participants as needed

for support and linkage

( ) - Long-Term Contract

★ - Program Coordinator

● - CWG Coordinator

X - Manager

▼ - Admin. Support



# Stand Establishment and Management



## MIXEDWOOD SILVICULTURE

★ B. MacDonald  
T. Reece  
▼ (J. Rudzki)  
X V. Wearn  
D. Weingartner  
J. Winters

## VEGETATION MANAGEMENT ALTERNATIVES PROGRAM

N. Beaudoin (M. Rogozynski)  
W. Bell ▼ (J. Rudzki)  
(L. Buse)  
M. Ter-Mikaelian  
X D. DeYoe ★ R. Wagner  
R.A. Lautenschlager J. Winters  
A. Lehela  
(C. Misasi)

## HARDWOOD SILVICULTURE

H. Anderson  
● ★ D. Dey  
B. Laporte  
J. Rice  
▼ (J. Rudzki)  
X V. Wearn  
J. Winters

### Core Team Others

- regular participants  
- participants as needed  
for support and linkage  
( ) - Long-Term Contract

★ - Program Coordinator  
● - CWG Coordinator  
X - Manager  
▼ - Admin. Support

# Administration and Support Services

## ADMINISTRATIONS/ OPERATIONS

★ M. Dagenais  
D. Fleury  
A. Foggia  
(M. Lewis)  
E. Maxton  
● (P. McCaw)

J. Messenger  
T. Quevillion  
▼ (J. Rudzki)  
✕ T. Taylor  
H. Wreggitt

## FACILITY SUPPORT SERVICES

★ S. Blake  
B. Biggar  
(A. Cyr)  
R. Fawcett  
✕ D. Gamble  
R. Klazinga  
▼ (M. Lewis)  
(R. Moore)

## TECHNOLOGY TRANSFER AND INFORMATION

★ D. Bates  
(L. Buse)  
▼ A. Foggia  
D. Gillmeister  
C. Hanmore  
(C. Misasi)  
✕ T. Taylor

<b>Core Team</b>	- regular participants	★ - Program Coordinator
<b>Others</b>	- participants as needed	● - CW/G Coordinator
	for support and linkage	✕ - Manager
	( ) - Long-Term Contract	▼ - Admin. Support













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